

A cretaceous genus of Abietineae.—Dr. STOPES³⁸ has investigated a petrified tree trunk from the Cretaceous of New Zealand, which shows “a striking mixture of abietinean and araucarian characters.” She regards it as a new genus, which is named *Planoxylon*, and which is made to contain two species, the one investigated (*P. Hectori*) and another (*P. Lindleii*) that had been referred to *Araucarioxylon* by SEWARD. *P. Hectori* is of special interest because “it comes from Australasia, where no Abietineae or Juniperineae or other forms with abietinean ray structure are endemic at present.”—J. M. C.

Morphology of Treubia.—GRÜN,³⁹ studying material of *Treubia insignis* Goebel from Tjibodas, finds that the thallus develops from a dolabrate apical cell like most of the anacrogynous Jungermanniales; that the archegonia occur in clusters of 8–10 and may have as many as 16 neck canal cells each; that only one sporophyte develops on each thallus; that vegetative reproduction is by means of 3 or 4-celled brood bodies; that mycorrhiza are present in the thallus; and that the chromosome numbers are 8 and 16.—W. J. G. LAND.

Plagiochasma.—In a monograph of the genus *Plagiochasma*, EVANS⁴⁰ includes as much of the morphology of the group as will be useful for purposes of identification of species, gives a key to the North American species, and describes in detail the 6 species found in North America, one of which is new to science. The reviewer believes that several new species will be added to the group from Mexico when botanical exploration again becomes possible in that country.—W. J. G. LAND.

Endemism in the flora of New York.—TAYLOR⁴¹ has found in the flora of the region near New York 22 endemic species, of which he considers 14 to be accounted for by generic or specific instability; 2 are “habitat endemics,” or habitat forms of more widely spread species; while 5 are evidently relic endemics. He is convinced, therefore, that many forces are operative in making endemics, and he gives some discussion of such possible forces.—GEO. D. FULLER.

³⁸ STOPES, MARIE C., An early type of the Abietineae(?) from the Cretaceous of New Zealand. *Ann. Botany* 30:111–125. *pl.* 4. *figs.* 7. 1916.

³⁹ GRÜN, C., Monographische Studien an *Treubia insignis* Goebel. *Flora* 106: 331–392. *pls.* 3–5. *figs.* 14. 1914.

⁴⁰ EVANS, ALEXANDER W., The genus *Plagiochasma* and its North American species. *Bull. Torr. Bot. Club* 42:259–308. *figs.* 8. 1915.

⁴¹ TAYLOR, NORMAN, Endemism in the flora of the vicinity of New York. *Torreyia* 16:18–27. 1916.